



Cisco Catalyst C9300L-48UXM-4X-E

Catalyst 9300L 48-Port Multigigabit UPOE, 4x 10G Fixed Uplinks, Network Essentials Data Sheet

Product Overview: The Cisco Catalyst C9300L-48UXM-4X-E is a high-performance Multigigabit (mGig) access switch equipped with 36x 1G ports and 12x mGig ports (up to 10G/2.5G/1G) supporting Cisco UPOE (up to 60W per port), along with 4 fixed 10G SFP+ uplinks. It is engineered to power high-speed Wi-Fi 6/6E/7 Access Points and high-demand network endpoints.

12 mGig + 36 1G UPOE DOWNLINKS	4x 10G SFP+ FIXED UPLINKS	392 Gbps SWITCHING CAPACITY	320 Gbps STACKWISE STACKING
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1. SYSTEM ARCHITECTURE & KEY FEATURES

The Cisco Catalyst 9300L Series Multigigabit switches extend high-speed enterprise access over existing Cat 5e/Cat 6 cabling using Cisco Multigigabit Ethernet technology. Powered by Cisco's UADP ASIC and IOS XE, this switch is purpose-built for high-density IoT and Wi-Fi 6E/7 environments.

- **Multigigabit Port Density:** Features 12 ports with speed auto-negotiation for 100M/1G/2.5G/5G/10G alongside 36 standard 1G ports.
- **High-Power Cisco UPOE (60W):** All 48 ports support Cisco UPOE (up to 60W per port) to power high-draw access points, IP cameras, and smart building sensors.
- **StackWise-320 Technology:** Supports stacking up to 8 units delivering 320 Gbps stacking bandwidth with unified single-IP management.
- **Fixed Uplinks:** Built-in 4 x 10G SFP+ ports eliminate the need for separate uplink expansion modules.
- **Enterprise Security:** Includes MACsec-128, Secure Boot, Trust Anchor module, Dynamic ARP Inspection (DAI), and DHCP Snooping.

2. TECHNICAL SPECIFICATIONS

FEATURE / PARAMETER	SPECIFICATION DETAILS
Product Model	Cisco Catalyst C9300L-48UXM-4X-E
Multigigabit Downlinks	12 x 100M/1G/2.5G/5G/10G Cisco UPOE Ports
Standard Downlinks	36 x 10/100/1000 Mbps RJ-45 Cisco UPOE Ports
Uplink Interfaces	4 x 10G/1G SFP+ Fixed Uplinks
Software License	Cisco Network Essentials (Layer 3 Routing & Core Services)
Switching Capacity	392 Gbps (Standalone) / Up to 712 Gbps (With StackWise-320)
Forwarding Rate	291.66 Mpps (Standalone) / 529.76 Mpps (Stacked)
Processor / Memory	x86 Multicore CPU / 8 GB DRAM / 16 GB Flash
MAC Address Table	32,000 entries
IPv4 / IPv6 Scale	32,000 IPv4 entries / 16,000 IPv6 entries

FEATURE / PARAMETER	SPECIFICATION DETAILS
VLAN IDs & SVIs	4,094 VLAN IDs / 1,000 Switched Virtual Interfaces (SVIs)
Jumbo Frame Support	Up to 9,198 bytes

3. POWER, POE & RESILIENCY

POWER PARAMETER	SPECIFICATION
PoE Standards	IEEE 802.3af (PoE), IEEE 802.3at (PoE+), Cisco UPOE (60W)
Default Power Supply	1100W AC Power Supply Module (PWR-C1-1100WAC-P)
Available PoE Budget	690W (with default 1100W AC) / Up to 1440W (with dual power supplies)
Power Supply Slots	2 Field-replaceable dual hot-swappable slots
Fan Redundancy	3 Hot-swappable redundant fan modules

4. SOFTWARE FEATURES & SERVICES

Layer 2 & Layer 3 Routing

- L2 Switching, VLAN Trunking (802.1Q), STP, RSTP, MSTP.
- Routed Access Layer 3: Static Routing, RIP, OSPF (Up to 1,000 routes).
- Policy-Based Routing (PBR) & VRF-Lite.
- Multicast Support: IGMP v1/v2/v3, PIM-SM, PIM-SSM.

Management & Automation

- Cisco DNA Center & Meraki Dashboard Integration.
- Model-Driven Programmability: NETCONF, RESTCONF, YANG models.
- On-box Python scripting & Telemetry streaming.
- Full Cisco CLI, Web UI, and SNMP v1/v2c/v3.

5. PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

PARAMETER	VALUE
Form Factor	1RU Rack-Mountable (19-inch standard rack)
Dimensions (H x W x D)	1.73 in x 17.5 in x 19.2 in (4.4 cm x 44.5 cm x 48.8 cm)
Unit Weight	Approx. 16.1 lbs (7.3 kg)
Operating Temperature	-5°C to 45°C (23°F to 113°F) at sea level
MTBF (Hours)	285,420 Hours

6. ORDERING INFORMATION & ACCESSORIES

PART NUMBER	DESCRIPTION
C9300L-48UXM-4X-E	Catalyst 9300L 48-port (12x mGig + 36x 1G) UPOE, 4x 10G Uplinks, Network Essentials
PWR-C1-1100WAC-P	1100W AC Platinum Config 1 Power Supply Module
C9300L-STACK-KIT	StackWise-320 Stacking Kit for C9300L Series Switches
STACK-T3-1M	1 Meter Cisco StackWise-320 Stacking Cable

PART NUMBER	DESCRIPTION
ACC-KIT-T1	Standard Accessory Kit & 19-inch Rack Mount Brackets